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- (a) a first metal having hydrogenation activity and selected from palladium, ruthenium, nickel, or cobalt;
- (b) a second metal, different from the first metal, selected from zinc, tin, nickel or cobalt; and
- (c) a crystalline inorganic oxide material having an X-ray diffraction pattern including the following d-spacing maxima 12.4±0.25, 6.9±0.15, 3.57±0.07 and 3.42 ± 0.07 .
- (First Amended) The catalyst of claim 7 wherein the crystalline inorganic oxide 9. EZ material is MCM-22 having an Alpha value greater than about 170.
 - (Three Times Amended) A catalyst suitable for the hydroalkylation of an 10. aromatic hydrocarbon comprising:
 - (a) MCM-22 zeolite having an Alpha value greater than about 170;
 - (b) ruthenium; and
 - (c) tin.
 - A catalyst suitable for the hydroalkylation of an aromatic 11. (Amended) hydrocarbon comprising:

ruthenium;

tin; and

a crystalline inorganic oxide material having an X-ray diffraction pattern including the following d-spacing maxima 12.4±0.25, 6.9±0.15, 3.57±0.07 and 3.42±0.07, wherein the crystalline inorganic oxide material is selected from PSH-3, SSZ-25, MCM-36, MCM-49 or MCM-56.

REMARKS

Claims 7 has been amended to reinstate the scope of the original claims. It has also been amended to correct a typographical error, replacing "a" with "an" before the